

CLAIMS

- 1 1. (Original) A method for dynamic emulation of legacy instructions comprising:
2 accessing said legacy instructions in legacy blocks,
3 for each particular legacy instruction in a particular legacy block,
4 translating the particular legacy instruction into one or more particular translated
5 instructions for emulating the particular legacy instruction,
6 organizing the particular translated instructions into one or more particular translated
7 blocks,
8 linking the particular translated blocks into a particular linked group corresponding to
9 said particular legacy instruction.
- 1 2. (Original) The method of Claim 1 wherein said linking step uses a link in each particular
2 translated block to point to a location of the next particular translated block of the particular linked
3 group.
- 1 3. (Original) The method of Claim 1 wherein said particular translated instructions are stored in a
2 cache and wherein said particular translated instructions are purged from said cache only when all
3 said particular translated instructions of particular translated blocks are also purged from said cache.
- 1 4. (Original) The method of Claim 1 wherein said legacy instructions are for a legacy system having
2 a S/390 architecture.
- 1 5. (Original) The method of Claim 1 wherein said legacy instructions are object code instructions
2 compiled/assembled for a legacy architecture.
- 1 6. (Original) The method of Claim 1 wherein said translated instructions are for execution in a
2 RISC architecture.

1 7. (Original) A method for dynamic emulation of legacy instructions, where the legacy instructions
2 are compiled/assembled into object code form for a native architecture, where the legacy instructions
3 are executed as guests in the host architecture, where the legacy instructions are translated to
4 translated instructions in the host architecture and the translated instructions are executed in the host
5 architecture concurrently with the translation of the legacy instructions in the host architecture,
6 comprising:

7 accessing said legacy instructions in legacy blocks of a host system operating with said host
8 architecture,

9 for each particular legacy instruction in a particular legacy block,

10 translating the particular legacy instruction into one or more particular translated
11 instructions of the host system for emulating the particular legacy instruction as a
12 guest in said host architecture,

13 organizing the particular translated instructions into one or more particular translated
14 blocks,

15 linking the particular translated blocks into a particular linked group corresponding to
16 said particular legacy instruction.